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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/786,527

03/05/2001

Norbert Lobig

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09/20/2004

FOLEY & LARDNER

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MILWAUKEE, WI 53202-5308

EXAMINER

TANG, KAREN C

ART UNIT

PAPER NUMBER

2662

DATE MAILED: 09/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/786,527

Applicant(s)

LOBIG, NORBERT

Examiner

Karen C Tang

Art Unit

2662

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 23-42 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 23-42 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on ____ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>3/5/2001</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Objections

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

It is noted that the examiner has contacted the attorney and both parties have come to the agreement that the claims 22-41 are renumbered to 23-42.

Claim 27 and 35 are objected because the word "form" should be "from" on the fifth line of each claim.

Claim 42 is objected because it is depend on a cancelled claim 20. (Examiner assume 42 should depend from 41)

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claim 23–29, 31-37, 39 and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Butler II hereinafter Butler (US 5,625,681).

Referring to claim 23 and 32, Butler discloses:

Art Unit: 2662

A first telecommunication network: Examiner interprets the first telecommunication network as a service area which covers area code (801) refer to Fig 2b.

A local exchange: Examiner interprets a local exchange as a switch 22b, refer to Col 4, Line 6-19 and Fig 2b.

A second telecommunication network: Examiner interprets the second telecommunication network as a service area which covers area code (802) refer to Fig 2b.

A second local exchange: Examiner interprets a second local exchange as switch 22c and d refer to Fig 2b.

A subscriber: Examiner interprets a subscriber as John Smith, refer to Col 4, Line 9.

Said first telecommunication network being connected to said second telecommunication network via a connection point (STP/SCP), refer to Fig 2b.

Said subscriber station involved in a change between telecommunications network, Examiner interprets the change between telecommunications as the subscriber moved from one area to another and need to change the area code refer to Col 8, Line 40-57.

Said subscriber station initially connected to said first telecommunications network, refer to Col 4, Line 6-19.

Art Unit: 2662

Said primary routing information pertaining to said subscriber station, Examiner interpret the routing information as a telephone number Col 3, Line 40-48 and Col 4, Line 21.

Said primary routing information being contained in the first and second telecommunication network, refer to Col 8, Line 40-57.

Said primary routing information for defining a connection set up from the second telecommunications network to the first local exchange, refer to Col 3, Line 48-67 and Col 4, Line 30-49, and Col 8, Line 40-57.

Initially storing the secondary routing information in the first local exchange, refer to Col 4, Line 30-49.

Secondary routing information for defining a further connection setup, for the subscriber station to the secondary telecommunications network via the connection point provided that the subscriber station is not present, refer to Col 8, Line 22-25, Line 47-58.

Disconnecting the subscriber station from the first local exchange, refer to Col 8, line 40-64.

Connecting the subscriber station to the second local exchange, refer to Col 8, line 40-67.

Referring to claim 24, Butler discloses changing the primary routing information in the second telecommunications network such that connections from the second communications network to the subscriber station are being set up to the second local exchange refer to Col 5, Line 39-52.

Referring to claim 25, Butler teaches:

If the subscriber station is still being connected to the first local exchange, then carrying out the further connection setup via the first local exchange refer to Col 3, Line 48-67.

If the subscriber station is no longer connected to the first local exchange, then, carrying out the further connection setup via an associated secondary routing information refer to Col 4, Line 60-67, Figure 4 and Col 5, Line 1-5.

Referring to claim 26, Butler discloses activating the secondary routing information in the first local exchange upon a fault occurring on an access line of the subscriber station while disconnecting the subscriber station, said secondary routing information relating to the subscriber station refer to Col 4, Line 20-25.

Referring to claim 27 and 35, Butler discloses changing the primary routing information in the first communications network after disconnecting the subscriber station from the first local station, so that communication requests originating from the first telecommunications network to the subscriber station are passed from the first telecommunications network to the second telecommunications network via the connection point refer to Col 6, Line 45-55 and Col 7, Line 3-22.

Referring to claim 28, Butler discloses deleting the secondary routing information in the first local exchange – said secondary routing information relating to the subscriber station refer to Col 4, Line 47- 54

Referring to claim 29, Butler discloses the network deleting details from the first local exchange, said details relating to a relevant subscriber station being previously connected to the first telecommunications network, refer to Col 6, Line 50-59.

Referring to claim 31 and 39, Butler discloses a carrier signal for a duration of the subscriber switching, said the signal being monitored by the first local exchange in order to identify a line fault in a(n) digital/analog lines refer to Col 1, Line 34-50.

Referring to claim 33, Butler discloses details that provide information to the subscriber station in a course of a connection request with storage of the secondary routing information in the secondary local exchange if the subscriber station is still being connected to the first local exchange, then, carrying out the further connection setup via the second local exchange refer to Col 9, Line 28-42 and Col 10, Line 1-4.

Butler further disclose if the subscriber station is no longer connected to the second local exchange, then, carrying out the further connection setup via an associated secondary routing information refer to Col 9, Line 42-50 and Col 10, Line 1-4.

Referring to claim 34, Butler discloses deactivating the secondary routing information relating to the subscriber station in the second local exchange, upon a fault end signal occurring on an access line of the subscriber station while disconnecting the subscriber station refer to Col 4, Line 60- 68 and Col 5, Line 1-5

Referring to claim 36, Butler discloses the network deleting details from the second local exchange refer to Col 6, Line 55-60.

Art Unit: 2662

Referring to claim 37, Butler discloses by change a part of the details, it indicate a connection of the subscriber station to the second local exchange refer to Col 10, Line 43-49.

Referring to claim 40, Butler discloses storing and making available the primary and secondary routing information by utilizing at least one of a local operation at an exchange level and a central operation in a network refer to Col 4, Line 35-45.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 30,38, 41, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Butler II hereinafter Butler US 5,625,681 in view of McGary et al. hereinafter McGary US 5774316.

Referring to claim 30, Butler discloses that if the subscriber station is still being connected to the first local exchange, then carrying out the further connection setup via the first local exchange and if the subscriber station is no longer connected to the first local exchange, then, carrying out the further connection setup via an associated secondary routing information refer to Col 3, Line 48-67.

Art Unit: 2662

Butler does not expressively indicate the fault is a line fault and means the ground fault and a short circuit of a subscriber line.

McGary teaches a fault is a line fault in the first local exchange being caused by at least one of a ground fault and a short circuit of a subscriber line during disconnection of said associated subscriber station, the associated subscriber station being an analog subscriber refer to Col 2, Line 8 - 10

At the time of the invention, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teaching Butler with the teaching of McGary. One of ordinary skill in the art would have been motivated to do this because if there is a ground fault, it could damage other circuit such as the power supply, and for the safety reason, it would be wise to disconnect said associated subscriber station, the associated subscriber station being an analog subscriber.

Referring to claim 38 Butler discloses that if the subscriber station is still being connected to the first local exchange, then carrying out the further connection setup via the first local exchange and if the subscriber station is no longer connected to the first local exchange, then, carrying out the further connection setup via an associated secondary routing information refer to Col 3, Line 48-67.

Butler does not expressively indicate fixing a line at the second local exchange upon connection of the subscriber station, by rectifying at least one of a ground fault and a short circuit existing on a subscriber line providing that the subscriber station is an analog subscriber station.

McGary teaches rectifying a ground fault and a short circuit existing on a subscriber line, which can prevent a fault occur in the line refer to Col 7, Line 19-26.

At the time of the invention, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teaching Butler with the teaching of McGary. One of ordinary skill in the art would have been motivated to do this because by rectifying the ground fault, it can reduce the amount of current flow into the system, and it can protect telecommunication service personnel working on line-worked telephone circuits from ground faults, without having to first disconnect the power source prior to working on the line.

Referring to claim 41, Butler does not disclose a detecting a connection control by counting a passing of a connection in involved transient nodes, said connection control being carried out more than one time via the connection point in a course of setting up the connection; and clearing the connection provided that a defined number of counting is being exceed.

McGary discloses there is a prescribed 'ground fault' threshold in the telecommunication system, once through the sensor resistor exceed the prescribed 'ground fault' threshold, the switching circuit can reduce the power to the telephone line to a safe level. The sensor resistor can detect the "ground fault" threshold by detecting the amount of signal/connection passed through the system refer to Col 2, Line 44-50.

At the time of the invention, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teaching Butler with the

Art Unit: 2662

teaching of McGary. One of ordinary skill in the art would have been motivated to do this because by having a prescribed threshold and a system which can clear the connection (reducing the power), it would reduce the chance of having a ground fault. Thus it can protect telecommunication service personnel working on line-worked telephone circuits from ground faults, without having to first disconnect the power source prior to working on the line.

Referring to claim 42:

Butler discloses connecting to the subscriber station to at least one of the first exchange and the second exchange via an access network interface refer to Col 4, Line 6-19.

Butler discloses utilizing one of an availability and unavailability of the subscriber station as a criterion for one of an activation and a deactivation of the further connection setup in accordance with the secondary routing information of the subscriber station refer to Col4, Line 6-19.

Butler discloses one of an availability and non-availability being signaled by the subscriber station to a respective local exchange refer to Col 7, Line 4-25.

McGary discloses there is a prescribed 'ground fault' threshold in the telecommunication system, once through the sensor resistor exceed the prescribed 'ground fault' threshold, the switching circuit can reduce the power to the telephone line to a safe level. The sensor resistor can detect the "ground fault" threshold by detecting the amount of signal/connection passed through the system refer to Col 2, Line 44-50.

At the time of the invention, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teaching Butler with the teaching of McGary. One of ordinary skill in the art would have been motivated to do this because by having a prescribed threshold and a system which can clear the connection (reducing the power), it would reduce the chance of damage the power supply.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US 3,919,487 (Gabrielson discloses a telephone instrument disconnect circuit)
- US 4,041,255 (Cambridge discloses a switching circuit for telecommunications lines.)

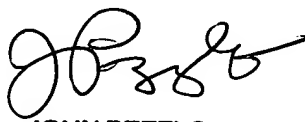
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen C Tang whose telephone number is (571)272-3116. The examiner can normally be reached on M-F 7 - 3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571)272-3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2662

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KT



JOHN PEZZLO
PRIMARY EXAMINER